

ABSTRACT

5 An Apparatus for determining the disposition of an object relative to a reference
frame includes at least one field generator, which generates an electromagnetic field
in a vicinity of the object and at least one transducer, which is fixed to the object.
The at least one transducer vibrates at a predetermined vibrational frequency and
emits energy, responsive to an interaction of the electromagnetic field therewith.
10 One or more detectors in a vicinity of the object are also utilized to detect the energy
emitted by the transducer and generate signals in response thereto. A signal
processor is also included for receiving and processing the detector signals to
determine coordinates of the object.